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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/586,702	07/20/2006	Lukasz Marek Szostek	US040047US	8208

24737 7590 05/24/2010
PHILIPS INTELLECTUAL PROPERTY & STANDARDS
P.O. BOX 3001
BRIARCLIFF MANOR, NY 10510

EXAMINER

BERHANE, YOSIEF H

ART UNIT	PAPER NUMBER
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2467

MAIL DATE	DELIVERY MODE
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05/24/2010

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/586,702	Applicant(s) SZOSTEK ET AL.	
	Examiner YOSIEF BERHANE	Art Unit 2467	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 July 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>07/20/2006</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. **Claims 1-24** have been examined and are pending.

Information Disclosure Statement

2. An initialed and dated copy of Applicant's IDS form 1449 submitted **07/20/2006** is attached to the instant office action.

3. ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

5. A person shall be entitled to a patent unless –

6. (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims **1-20 and 22-24** are rejected under 35 U.S.C. 102(e) as being anticipated by Publication **2008/0279178** to Chou et al. (hereinafter Chou).

8. **As per claim 1, 16-17 and 24.** Chou teaches a method for remotely controlled gateway management, the method comprising the steps of: receiving a request for content (Paragraph 0023, Chou discloses a Voice connector receives a call set-up request. Also see paragraph 0071 where Chou discloses a database used to translate addresses within a module coupled to the connector),
9. the request comprising global addressing information of a gateway (Paragraph 0062, Chou discloses a call set-up request contains information regarding the desired VoIP connection including destination information such as an address)
10. and corresponding to one or more network appliances on a local network accessible via the gateway (Paragraph 0023, Chou discloses that the set-up request is transmitted from a source gateway);
11. determining gateway configuration information suitable for configuring the gateway (Paragraph 0062, Chou discloses that the voice connector creates a virtual connection between the two network gateways by assigning a port or ports on which this VoIP communication will occur.)
12. to pass one or more content streams, each comprising portions of the content, to the one or more network appliances (Paragraph 0062, the port and socket assignment are used for transmitting voice packets between the first and second gateways);
13. and communicating the gateway configuration information with the gateway (Paragraph 0062, once voice connector assigns ports for the gateways, this information is transmitted to the voice switch and to the network gateways)

14. **As per claim 2.** Chou teaches wherein the step of communicating further comprises the step of communicating the gateway configuration information with the gateway (Paragraph 0062, Once voice connector assigns ports for the gateways, this information is transmitted to the voice switch and to the network gateways)
15. through a secure connection to the gateway (Paragraph 0063, Chou discloses VoIP connection may also comprise networking devices that may adjust the connection configuration and port number assignments within the connection. For example, firewalls or other network servers having corresponding addresses and port numbers may be included to enhance security).
16. **As per claim 3.** Chou teaches wherein the steps of determining gateway configuration information further comprises the step of determining one or more local addresses of the one or more network appliances (Paragraph 0062, Chou discloses that once this address translation occurs, the voice connector creates a virtual connection between the two network gateways by assigning a port or ports on which this VoIP communication will occur)
17. and determining a mapping from one or more gateway addresses associated with the gateway to the one or more local addresses (Paragraph 0062, Chou discloses that translation may occur by accessing a gatekeeper that is either public or operating within a private network and is masked from the requesting gateway) ,
18. wherein the gateway configuration information comprises the mapping (Chou discloses that once this address translation occurs, the voice connector creates a virtual connection between the two network gateways by assigning a port or ports on which this VoIP communication will occur. Once these ports are assigned, this information is transmitted to the voice switch 585 and to the network gateways).

19. **As per claim 4.** Chou teaches wherein the steps of determining gateway configuration information further comprises the step of determining one or more stream types for the one or more content streams , wherein the gateway configuration information comprises the one or more stream types (Paragraph 0055, Chou discloses that four-port configuration allows the voice router to identify the direction of the packet streams between the first network gateway and the second network gateway by the port on which a packet arrives, where the packets by either be RTP or RTCP).
20. **As per claim 5.** Chou teaches wherein the step of determining gateway configuration information further comprises the step of determining one or more global ports to open on the gateway (Paragraph 0023, Chou discloses port numbers are assigned to create the connection on which packets will travel, once this connection is established, the voice switch is able to switch or route packets between the two gateways),
21. wherein the gateway configuration information comprises the one or more global ports (Paragraph 0062, Once voice connector assigns ports for the gateways, this information is transmitted to the voice switch and to the network gateways).
22. **As per claim 6.** Chou teaches wherein the step of determining one or more global ports to open further comprises the step of determining one or more global ports to open on the gateway for the requested content (Paragraph 0023, Chou discloses the voice connector receives a call set-up request from a source gateway and translates, from that request, a destination network address to a terminating gateway, after which port numbers are assigned to create the connection on which packets will travel) .

23. **As per claim 7.** Chou teaches wherein a given one of the one or more network appliances is associated with a plurality of ports (Paragraph 0055, Chou discloses that four-port configuration allows the voice router to identify the direction of the packet streams between the first network gateway and the second network gateway by the port on which a packet arrives),
24. and wherein the step of determining one or more global ports to open on the gateway further comprises the step of determining a mapping from the one or more global ports to the plurality of ports for the given network appliance (Paragraph 0055, Chou discloses that four-port configuration allows the voice router to identify the direction of the packet streams between the first network gateway and the second network gateway by the port on which a packet arrives. Also see paragraph 0056),
25. the gateway configuration information comprising the mapping(Paragraph 0062, Once voice connector assigns ports for the gateways, this information is transmitted to the voice switch and to the network gateways).
26. **As per claim 8.** Chou teaches wherein a first content requires more global ports than a second content (Fig. 7a, Chou discloses that packets originating from different types of networks are allocated a different range of ports).
27. **As per claim 9.** Chou teaches the request further comprises information corresponding to the one or more network appliances (Paragraph 0062, Chou discloses a call set-up request contains information regarding the desired VoIP connection including destination information such as an address);
28. and the step of determining gateway configuration information further comprises the step of comparing the information corresponding to the one or more network appliances with stored

information (Paragraph 0064, Chou discloses the extracted IP source address may be compared to an IP address of either the first network gateway or the second network gateway) .

29. **As per claim 10.** Chou teaches wherein the information corresponding to the one or more network appliances comprises one or more network appliances identifications (Paragraph 0062, Chou discloses a call set-up request contains information regarding the desired VoIP connection including destination information such as an address).
30. **As per claim 11.** Chou teaches wherein the information corresponding to the one or more network appliances comprises one or more of the following: one or more addresses and one or more ports (Paragraph 0062, Chou discloses a call set-up request contains information regarding the desired VoIP connection including destination information such as an address).
31. **As per claim 12.** Chou teaches the information corresponding to the one or more network appliances comprises a unique identification for each of the one or more network appliances (Paragraph 0062, Chou discloses a call set-up request contains information regarding the desired VoIP connection including destination information such as an address);
32. the stored information comprises a plurality of unique identifications corresponding to a plurality of network appliances (Fig. 8a, box 595, 590, 598, Chou discloses that a voice connector maintains a network address translation table, network identification and port initialization);
33. the stored information further comprises a gateway type and a gateway communication information corresponding to one or more network appliances (Fig. 8b, voice switch maintains a network type identification. Also see fig. 7a and 7b);

34. and the step of determining gateway configuration information further comprises the step of when a match occurs between a unique identification in the information corresponding to the one or more network appliances and a given unique identification in the stored information (Paragraph 0082, Chou discloses that two IP addresses are compared to identify the smaller IP address and the larger IP address. The comparison provides an order in which the network type identifiers corresponding to the two networks will be inserted within the port number),
35. determining the gateway type and gateway communication information corresponding to the given unique identification (Paragraph 0082, Chou discloses when the voice switch 585 extracts these two bit masks; it will be able to associate each identifier to a particular network through the position from which the identifier was taken. Also see fig. 7a and 7b).
36. **As per claim 13.** Chou teaches the step of communicating the gateway configuration information further comprises the step of using the gateway communication information in order to communicate with the gateway (Paragraph 0062, once voice connector assigns ports for the gateways, this information is transmitted to the voice switch and to the network gateways).
37. **As per claim 14.** Chou teaches wherein the step of communicating the gateway configuration information with the gateway further comprises the step of communicating with a remote programming interface on the gateway (Paragraph 0062, once voice connector assigns ports for the gateways, this information is transmitted to the voice switch and to the network gateways).
38. **As per claim 15.** Chou teaches wherein the step of communicating the gateway configuration information with the gateway further comprises the step of sending one or more commands to the gateway in order to communicate the gateway configuration to the gateway

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(Paragraph 0062, once voice connector assigns ports for the gateways, this information is transmitted to the voice switch and to the network gateways).

39. **As per claim 18.** Chou teaches wherein: the step of receiving gateway configuration information suitable for configuring the gateway to pass one or more content streams further comprises the step of determining one or more global ports in the gateway configuration information (Paragraph 0055, Chou discloses that four-port configuration allows the voice router to identify the direction of the packet streams between the first network gateway and the second network gateway by the port on which a packet arrives, where the packets by either be RTP or RTCP);
40. and the step of configuring the gateway in accordance with the gateway configuration information further comprises the step of opening the one or more global ports (Paragraph 0023, Chou discloses port numbers are assigned to create the connection on which packets will travel, once this connection is established, the voice switch is able to switch or route packets between the two gateways).
41. **As per claim 19.** Chou teaches the step of receiving gateway configuration information suitable for configuring the gateway to pass one or more content streams further comprises the step of determining one or more local addresses in the gateway configuration information (Paragraph 0062, Chou discloses a call set-up request contains information regarding the desired VoIP connection including destination information such as an address),
42. wherein a given one of the local addresses correlates to a given one of the one or more global ports (Paragraph 0062, Chou discloses that once this address translation occurs, the voice

connector creates a virtual connection between the two network gateways by assigning a port or ports on which this VoIP communication will occur);

43. and the step of configuring the gateway in accordance with the gateway configuration information further comprises the step of sending a content stream received on the given open port to the given local address (Paragraph 0026, Chou teaches a first gateway and a second gateway are assigned a single port number for a data stream).
44. **As per claim 20.** Chou teaches the step of receiving gateway configuration information suitable for configuring the gateway to pass one or more content streams further comprises the step of determining one or more local ports in the gateway configuration information (Paragraph 0062, once voice connector assigns ports for the gateways, this information is transmitted to the voice switch and to the network gateways),
45. wherein a given one of the local ports correlates to the local address (Paragraph 0062, Chou discloses that once this address translation occurs, the voice connector creates a virtual connection between the two network gateways by assigning a port or ports on which this VoIP communication will occur);
46. and the step of configuring the gateway in accordance with the gateway configuration information further comprises the step of sending a content stream received on the given open port to the given local address and the given port (Paragraph 0026, Chou teaches a first gateway and a second gateway are assigned a single port number for a data stream).
47. **As per claim 22.** Chou teaches wherein the step of configuring the gateway in accordance with the gateway configuration information further comprises the step of configuring a router with the gateway configuration information (Paragraph 0062, once voice connector

assigns ports for the gateways, this information is transmitted to the voice switch and to the network gateways).

48. **As per claim 23.** Chou teaches wherein the step of configuring the gateway in accordance with the gateway configuration information further comprises the step of configuring a firewall with the gateway configuration information (Paragraph 0063, Chou discloses firewalls or other network servers having corresponding addresses and port numbers may be included to enhance security or add other functionality within the connection).

49. ***Claim Rejections - 35 USC § 103***

50. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

51. (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

52. **Claim 21** is rejected as being unpatentable over Chou as applied to claims above and further in view of Publication **2005/0076108** to Li et al. (hereinafter Li).

53. **As per claim 21.** Chou teaches the step of receiving gateway configuration information suitable for configuring the gateway to pass one or more content streams further comprises the step of determining one or more server addresses in the gateway configuration information

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(Paragraph 0063, Chou discloses firewalls or other network servers having corresponding addresses and port numbers may be included to enhance security or add other functionality within the connection),

54. wherein a given one of the server addresses correlates to a given one of the one or more global ports (Paragraph 0063, Chou discloses firewalls or other network servers having corresponding addresses and port numbers may be included);
55. Chou does not disclose expressly: configuring the gateway in accordance with the gateway configuration information further comprises the step of rejecting a content stream received on the given global port when a source address associated with the content stream does not match the given server address.
56. Li discloses in paragraph 0036 discloses Soft switch may then accept subsequent call setup messages from the NAT-translated source addresses and reject call setup messages without the dynamically learned source addresses
57. Li and Chou are analogous art because they are from similar fields of endeavor dealing specifically with managing gateways to establish voice and media communication.
58. At the time of the invention it would have been obvious to one of ordinary skill in the art to modify the system of Chou by rejecting call stream with an invalid source address as suggested by Li.
59. The rationale for doing so would have been to enhance security in a communication network (Paragraph 0004)
60. Therefore it would have been obvious to combine Li with Chou for the benefit of enhancing security to obtain the invention as specified in claim 21.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yosief Berhane whose telephone number is (571) 270-7164. The examiner can normally be reached at 9:00-6:00 Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pankaj Kumar can be reached at (571) 272-3011. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/YOSIEF BERHANE/

Examiner, Art Unit 2467

/Hong Cho/

Primary Examiner, Art Unit 2467

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